

In the Claims

1. (Currently amended) In a first device having a power line, a power ~~Power~~ supply protection apparatus comprising:

A2 a diode for limiting a flow of electric power to one direction, said diode being provided in said a power line that enables power supply within a predetermined range of said electric power;

 a voltage sensor for detecting a voltage value of said power line; and

 a switch unit for disconnecting said power line when a voltage value detected by said voltage sensor is greater than a predetermined value, and connecting said power line when said voltage value detected by said voltage sensor is less than said predetermined value.

2. (Original) Apparatus according to Claim 1 wherein said switch unit includes a transistor element.

3. (Original) Apparatus according to Claim 1 wherein said switch unit includes a limiting element for supplying a predetermined electric power value in a direction opposite to said one direction when said power line is disconnected.

4. (Currently amended) Apparatus according to Claim 1 wherein said predetermined voltage value is less than a dielectric strength voltage value of a component of said first device operated with electric power supplied from said power line, said component being provided upstream of said one direction.

5. (Currently amended) Apparatus according to Claim 1 wherein said power line is connected to a terminal of said first device for connecting to a power line of a second device conforming to the IEEE1394 standard adopted by the IEEE in 1995.

A2
6. (Currently amended) A computer system comprising:
a battery for supplying electrical power over a power line;
data processing circuitry connected to said power line and supplied with electrical power by said battery, said data processing circuitry having associated therewith a withstand voltage value above which at least a portion of said data processing circuitry is not designed to operate;

a terminal connected to said power line, for connecting said computer system to at least one external device over a bus;

system protection circuitry connected to said power line, disposed between said data processing circuitry and said terminal, for protecting the data processing circuitry from voltages greater than said withstand voltage value caused on said power line by said at least one external device; the system protection ~~means~~ circuitry comprising:

a diode provided in said power line;

a voltage sensor for detecting voltage values of said power line at said terminal

and,

switching means, responsive to a detection by said voltage sensor of a voltage value greater than a predetermined value, which predetermined value is less than said

withstand voltage value, for disconnecting said power line, and responsive to a detection of a voltage value lower than said predetermined value to connect said power line.

A2 7. (Currently amended) A computer system according to claim 6 wherein said bus conforms to the IEEE1394 standard adopted by the IEEE in 1995.

8. (New) Apparatus according to claim 1, wherein said power line is connected to a terminal of said first device for connecting to a power line of a second device, said second device capable of supplying to said terminal of said first device a voltage of a level which would damage said first device.

9. (New) A computer system according to claim 6 wherein said bus carries thereon a voltage of a level which would damage said computer system.

10. (New) Power supply protection apparatus comprising:
a diode for limiting a flow of electric power to one direction, said diode being provided in a power line that enables power supply within a predetermined range of said electric power;
a voltage sensor for detecting a voltage value of said power line; and
a switch unit for disconnecting said power line when a voltage value detected by said voltage sensor is greater than a predetermined value, and connecting said power line when said voltage value detected by said voltage sensor is less than said predetermined value, wherein

PATENT

Application No. 09/788,253

Docket No. JP919990738

Page 7

AJ
end

said switch unit includes a limiting element for supplying a predetermined electric power value

in a direction opposite to said one direction when said power line is disconnected.
